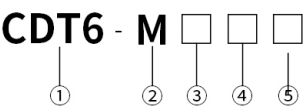




- 特点 Features
- 10种延时模式：-5种通过电源控制的延时模式，-4种通过信号控制的延时模式，-1种脉冲转换模式
 - 超宽延时范围，0.1秒-10天可设定（10个档位）
 - 具有AC/DC12V-240V超宽工作电压规格可选
 - 继电器工作状态通过LED指示灯指示
 - 超小体积，仅18mm宽度，35mm卡轨安装
 - 多功能时间继电器可用于工业设备、照明控制、加热元件控制、马达、风机控制，具有10种延时模式，延时范围覆盖0.1秒-10天
- 10 kinds of delay modes: -5 kinds of delay modes controlled by power supply, -4 delay modes controlled by signal, -1 pulse conversion modes
 - Ultra-wide delay range, 0.1 seconds-10 days can be set (10 gears)
 - It has AC/DC12V-240V ultra-wide operating voltage specifications to choose from
 - The working status of the relay is indicated by an LED indicator
 - Ultra-small size, only 18mm width, 35mm card rail installation
 - The multi-function time relay can be used for industrial equipment, lighting control, heating element control, motor, and fan control. It has 10 delay modes and the delay range covers 0.1 seconds to 10 days



选型说明 Model Designation



序号 No	项目 Item	代号 Code	说明 Description
①	产品名称 Product name	CDT6	卡轨式时间继电器 Clamp rail type time relay
②	产品系列 Product series	M	多功能型时间继电器 Multi-functional time relay
③	功能代号 Function code	1	1组转换 Group 1 conversion
		2	2组转换 Group 2 conversion
④	输出触点 Output contact	10	输出触点 10A Output contact 10A
		16	输出触点 16A Output contact 16A
⑤	额定工作电压 Rated operating voltage	M	AC220V
		W	AC/DC12V-240V
		A-Z 字母组合 A-Z letter combination	定制电压 Custom voltage

常用型号 Common Model

产品型号 Product model	功能 Feature	输出触点参数 Output contact parameters	额定电压 Rated voltage
CDT6-M110M	通电延时、延时断开、循环延时、脉冲触发等10种工作模式可选 10 working modes such as power delay, delay disconnect, cycle delay and pulse trigger are available	1组转换、输出触点Ith:10A,Ie:2.5A 1 group conversion, Output contact Ith:10A, Ie:2.5A	AC220V
CDT6-M210M		2组转换、输出触点Ith:10A,Ie:2.5A 2 group conversion, Output contact Ith:10A, Ie:2.5A	AC220V
CDT6-M116W		1组转换、输出触点Ith:16A,Ie:5A 1 group conversion, Output contact Ith:16A, Ie:5A	AC/DC 12-240V
CDT6-M216W		2组转换、输出触点Ith:16A,Ie:5A 2 group conversion, Output contact Ith:16A, Ie:5A	AC/DC 12-240V

注：以上为常用型号参考，未在表格内的参考选型说明。
Note: The above is a common model reference, not in the table reference selection description.

技术参数 Technical Parameters

		CDT6-M1	CDT6-M2
功能 Function		A,B,C,D,E,F,G,H,I,J	
电源端子 Power terminal		A1-A2	
额定控制电源电压 Rated control power supply voltage	W (AC/DC12V-240V)	AC/DC 12-240V(50-60Hz)	
消耗功率 Power consumption		AC 0.09-3VA/DC 0.05-1.7W	
额定控制电源电压 Rated control power supply voltage	M (AC220V)	AC 220V(50-60Hz)	
消耗功率 Power consumption		AC max.6VA/1.3W	AC max.6VA/1.9W
电源允许波动范围 Allowable fluctuation range of power supply		-15%;+10%	
电源指示灯 Power indicator		绿色LED Green LED	
延时范围 Delay range		0.1 秒 -10 天, 常开, 常闭 0.1 seconds-10 days, normally open, normally closed	
设定方式 Setting method		旋钮 knob	
设定精度 Setting accuracy		10%	
重复精度 Repeatability		0.2%	
温度波动误差 Temperature fluctuation error		0.05%/°C (reference: 20°C)	
输出触点参数 Output contact parameters	触点数量 Number of contacts	1 组转换 1 set of conversions	2 组转换 2 sets of conversions
	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC
	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC
最小切换功率 Minimum switching power		500mW	
输出继电器指示 Output relay indication		红色 LED Red LED	
机械寿命 Mechanical life		1×10 ⁷	
电寿命 (阻性负载) Electrical life (resistive load)		1×10 ⁵	
复位时间 Reset time		最大 200ms Maximum 200ms	
工作环境温度 Operating ambient temperature		-20°C ~+55°C	
存储和运输环境温度 Storage and transportation ambient temperature		-35°C ~+75°C	
安装方式 Installation method		35mm 卡轨安装 35mm card rail installation	
防护等级 Protection level		IP20	
安装位置 Installation location		任意 Arbitrary	
安装海拔高度 Installation altitude		≤ 2000m	
污染等级 Pollution level		2	
接线能力 Wiring ability		1×2.5mm ² 或 2×1.5mm ² 0.4N·m	
外形尺寸 Dimensions		90mm×18mm×65mm	
重量 Weight		67g	80g

国际认证规格 International Certification Specifications

认证规格 Certification specifications	规格 Specifications	文件No. Document
CCC	GB/T 14048.5	请咨询昌得代表处 Please consult the CNTD Representative Office
CE	EN 60947-5-1	

安全规格认证额定值 Safety Specification Certification Rating

CCC(GB/T 14048.5)、CE(EN 60947-5-1)

类型与额定值 Type and Rating
AC-15:Ue/Ie 2.5A/250VAC(输出触点Output contact 10A)
AC-15:Ue/Ie 5A/250VAC(输出触点Output contact 16A)

功能图 Function Diagramw

A: 通电延时

当继电器Un得电, 继电器开始延时, 延时t后输出触点闭合。继电器Un断电后, 输出触点断开, S控制信号在这个功能模式中无效。

A: Power-on delay

When the relay Un gets power, the relay starts to delay, and the output contact is closed after the delay T. After the relay Un is powered off, the output contact is disconnected, and the S control signal is invalid in this functional mode.



B: 延时断开

当继电器Un得电, 继电器输出触点马上闭合, 开始延时, 延时t后输出触点断开, 如延时时间t未到继电器Un失电, S控制信号在这个功能模式中无效。

B: Delay disconnection

When the relay Un gets power, the output contacts of the relay are immediately closed and the delay begins. After the delay t, the output contacts are disconnected. If the delay time t does not reach the relay Un loses power, the output contacts are disconnected, and the S control signal is invalid in this functional mode.



C: 循环延时 (OFF开始)

当继电器Un得电, 继电器开始延时, 延时t后输出触点闭合, 同时又经过延时时间t后继电器输出触点断开, 如此循环延时直到继电器Un失电, S控制信号在这个功能模式中无效。

C: Cycle delay (START OFF)

When the relay Un gets power, the relay starts to delay, and the output contact is closed after the delay t, and at the same time, the relay output contact is disconnected after the delay time t, and so on. The cycle is delayed until the relay Un loses power, and the S control signal is invalid in this functional mode.



D: 循环延时 (ON开始)

当继电器Un得电, 继电器闭合并开始延时, 延时t后输出触点断开, 同时又经过延时时间t后继电器输出触点闭合, 如此循环延时直到继电器Un失电, S控制信号在这个功能模式中无效。

D: Cycle delay (ON start)

When the relay Un gets power, the relay is closed and the delay begins. After the delay t, the output contact is disconnected. At the same time, the relay output contact is closed after the delay time t, and so on. The cycle is delayed until the relay Un loses power, and the S control signal is invalid in this functional mode.



E: 延时断开 (S下降沿触发开始)

当继电器Un处于通电状态, 当S控制端接通时, 继电器闭合, S控制端断开时继电器开始延时, 延时t后输出触点断开, 延时t过程中S控制端重新接通, 延时t清零重新延时。

E: Delay disconnection (the falling edge of S triggers the start)

When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed, and when the S control terminal is disconnected, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on again, and the delay t is cleared to re-delay.



F: 延时断开 (S上升沿触发开始)

当继电器Un处于通电状态, 当S控制端接通时, 继电器闭合, 同时继电器开始延时, 延时t后输出触点断开, 延时t过程中S控制端重新接通, 延时t保持不变继续延时。

F: Delay disconnection (the rising edge of S triggers the start)

When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed. At the same time, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on again, and the delay t remains unchanged. Continue to delay.



G: S下降沿触发闭合, 延时断开

当继电器Un处于通电状态, 当S控制端断开时, 继电器闭合, 同时继电器开始延时, 延时t后输出触点断开, 延时t过程中S控制端重新接通断开, 延时t保持不变继续延时。

G: S falling edge triggers closure, delay disconnection

When the relay Un is in the energized state, when the S control terminal is disconnected, the relay is closed. At the same time, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on and off again, and the delay t remains unchanged. Continue to delay.



H: 接通断开延时

当继电器Un处于通电状态, 当S控制端接通时, 继电器开始延时, 延时t后输出触点闭合, 当S控制端断开时, 继电器开始延时, 延时t后输出触点断开。

H: On-off delay

When the relay Un is in the energized state, when the S control terminal is turned on, the relay starts to delay, and the output contact is closed after the delay T. When the S control terminal is disconnected, the relay starts to delay, and the output contact is disconnected after the delay T.



I: 脉冲转换

当继电器Un处于通电状态, 当S控制端接通时, 继电器输出触点状态转换。

I: Pulse conversion

When the relay Un is in the energized state, when the S control terminal is turned on, the state of the relay output contact transitions.

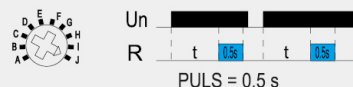


J: 脉冲输出

当继电器Un得电后, 继电器开始延时, 延时时间t到后, 继电器输出触点闭合0.5s后断开。

J: Pulse output

When the relay Un is powered up, the relay starts to delay. After the delay time t arrives, the relay output contact is closed for 0.5s and disconnected.



使用注意事项 Using Precautions

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- 要求极高安全性的应用场合, 涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合, 包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合, 包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、航天航空项目的应用场合。

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- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.